

# PATENT ABSTRACTS OF JAPAN

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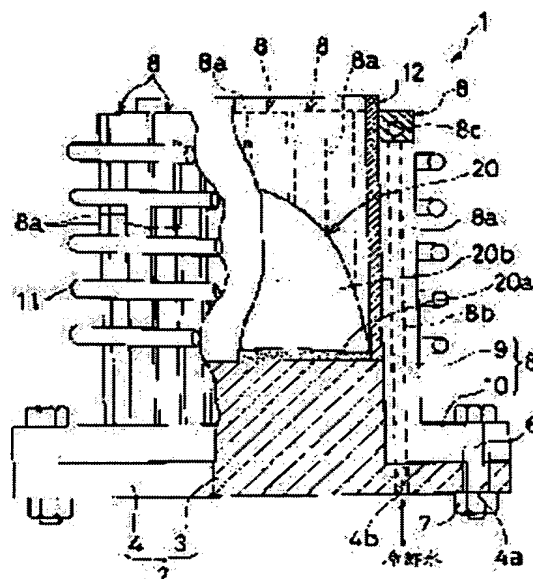
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## (54) INDUCTION HEATING MELTING FURNACE

### (57)Abstract:

**PROBLEM TO BE SOLVED:** To obtain almost all of a metal to be melted as a melt even if the metal 20 to be melted having a high thermal conductivity is melted.

**SOLUTION:** A furnace main body 1, an induction heating coil 11 and a partition wall member 12 are provided. The furnace main body 1 has a sidewall formed by arranging a plurality of conductive segments 8 provided in a circumferential direction in an insulated state with each other and contains the metal 20 in such a manner as to be capable of cooling the same. The induction coil 11 is disposed at an outer circumferential side of the sidewall and induction-heats the metal 20 contained in the furnace main body 1. The partition wall member 12 is installed along an inner face of the sidewall of the main body 1 and is made of carbon or the like capable of reducing the cooling capacity of the main body 1.



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